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1. N11A-T013: Mitigation of Fuel Tank Explosions and Fires from IED Blasts

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To research, understand, and develop strategies for mitigating fuel tank explosions from improvised explosive device (IED) blasts for Marine Corps vehicle applications. DESCRIPTION: With the increased threat of IEDs during combat operations it is imperative to create a solution to decrease the severity of IED blasts on vehicles, particularly blasts impacting the fuel tank. When comb ...

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2. N11A-T014: Advanced Flame Resistant Resin System for Carbon Fiber Reinforced Composite Shipboard Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop new affordable non-halogenated polymeric resin materials that have the improved structural, thermal and Fire, Smoke, and Toxicity (FST) behavior when compared to conventional brominated vinyl esters (Derakane 510A) which are currently in use by the U.S. Navy in topside structures. Special emphasis will be given to the structural and thermal characteristics of the polymeric sy ...

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3. N11A-T015: Image Feature Extraction for Improved EW Classification

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective of this topic is to develop an innovative data sharing and data fusion approach for improving situational awareness by combining feature extractions from both the on board imaging sensor (i.e., Photonics Mast and AN/BVS-1) and EW sensors (i.e., AN/BLQ-10) to create better separation in the decision space, resulting in an improvement in automatic classification and a reduc ...

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4. N11A-T016: Tunable Bandstop Filters for Suppression of Co-site Interference and Jamming Sources

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To design and develop tunable bandstop filters capable of dynamically changing bandwidth, center frequency, and stop band attenuation in the 2 GHz to 18 GHz band for ship board co-site interference and jamming source mitigation. DESCRIPTION: The radio spectrum has become extremely crowded in the past decade due to the exponential growth of wireless systems. With multiple wireless sys ...

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5. N11A-T017: Underwater Sensor System Autonomous Burial and Operation

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop innovative approaches to autonomously install, bury, power and communicate from a bottom mounted underwater sensor systems DESCRIPTION: Underwater surveillance in shallow water requires rapidly deployable systems which feature autonomous sensor installation with enhanced survivability against commercial fishing. In addition to rapid deployment, the need exists to bury sensors ...

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6. N11A-T018: Automated Situational Understanding for Undersea Warfare Decision Support

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: This topic seeks to develop and deploy an innovative information processing capability that can provide Anti Submarine Warfare (ASW) operators with enhanced operational insights, alerts, advisories and recommendations based on deeper situational understanding inferred from not only traditional ("hard") data sources, but also non-traditional ("soft") information sources (that are current ...

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7. N11A-T019: High Fidelity Digital Human Models for Protective Equipment Design

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop comprehensive high fidelity physics based digital human model to simulate human movement, study behind armor blunt trauma as well as the internal effects of ballistic penetration. DESCRIPTION: The Office of Naval Research (ONR) has been investigating modeling efforts as a means to produce cost effective tools which will be utilized during design and evaluation of per ...

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8. N11A-T020: Visible Electro-Optical (EO) System and LIDAR Fusion for Low Cost Perception by Autonomous Ground Vehicles

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a low-cost perception/classification system for the joint exploitation of LIDAR and passive multi-spectral data obtained across the visible spectrum employing self-calibrating algorithms for use in autonomous ground vehicles DESCRIPTION: Unmanned Ground Vehicles (UGVs) are an important part of the Navy"s ongoing technology strategy. The developing autonomy capabilities of to ...

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9. N11A-T021: Low Power, Long Life, Smart ISR Sensors

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Provide very low to ultra low power smart ISR sensors to enable long term unattended situational awareness. DESCRIPTION: Battlefield threat identification and intrusion warning remains a high importance topic to OSD, Navy and Marine Corps. For applications such as securing high valued assets to securing areas of interest, the life expectancy of the energy source and processing po ...

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10. N11A-T022: Hybrid Technologies Amplifier Chain for> 30 Gbps Per Data Link Energy Efficient Digital Output from 4K

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective is to demonstrate means of transporting high speed, digital data from 4K to 300K via a well integrated set of technologies that will minimize the heat loading on the low temperature stages. DESCRIPTION: After the inherent inefficiency of 4K coolers is considered, the consumption of wall power by Nb superconducting digital logic in performing its calculations is 100x sma ...

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